

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-4. (canceled)

5. (previously presented) A method for manufacturing a crystallized bottleneck of a polyester beer bottle, comprising the steps of:

- forming a blank of a bottle made of polyester material through drying;
- ejecting the polyester material and shaping said ejected polyester material through cooling, thereby forming an uncrystallized blank of a bottle;
- placing the uncrystallized blank of the bottle for 24-72 hours in an air-conditioned environment;
- preheating a crystallizer for at least two hours prior to crystallizing the blank of the bottle;
- loading a bunker with the uncrystallized blank of the bottle;
- delivering to an blank horse's head via a conveyor belt;
- sending a bottleneck portion of the uncrystallized bottle blank into said crystallizer to heat the bottleneck portion at a high temperature and crystallize the bottleneck portion via an arbor transmission chain;
- at the same time, controlling the temperature of the uncrystallized portion of the blank body, so that the uncrystallized portion of the blank body is not affected by the high temperature

environment of the crystallizer;

discharging the polyester bottle blank through an output blank horse's head;

and delivering to another conveyor belt to cool and shape the polyester bottle blank.

6. (previously presented) A method according to claim 5, wherein before said bunker is loaded with the uncrystallized blank, the temperature of the bottle blank is controlled by an arbor temperature controller; and, after the uncrystallized bottleneck portion of the bottle blank is fed into the crystallizer, the temperature of the bottle blank is controlled by a bottleneck temperature controller.

7. (previously presented) A method according to claim 6, wherein when said bunker is loaded with the uncrystallized blank, the temperature of the bottle blank is controlled in a range of 120–150°C.

8. (previously presented) A method according to claim 6, wherein the uncrystallized bottleneck portion of the bottle blank is fed into the crystallizer, the temperature of the bottle blank is controlled in a range of 130-170°C by a bottleneck temperature controller.

9. (previously presented) A method according to claim 5, wherein the crystallization time required for each bottle blank is controlled in a range of 90-120 sec.

10-12. (cancelled)

13. (previously presented) A method according to claim 6, wherein the crystallization time required for each blank is controlled in a range of 90-120 sec.

14. (previously presented) A method according to claim 7, wherein the crystallization time required for each blank is controlled in a range of 90-120 sec.

15. (previously presented) A method according to claim 8, wherein the crystallization time required for each blank is controlled in a range of 90-120 sec.

16. (canceled)

17. (previously presented) A method for manufacturing a crystallized bottleneck of a polyester beer bottle, comprising the steps of:

forming a blank of a bottle made of polyester material through drying;

ejecting the polyester material and shaping said ejected polyester material through cooling, thereby forming an uncrystallized blank of a bottle;

placing the uncrystallized blank of the bottle for 24-72 hours in an air-conditioned environment;

preheating a crystallizer for at least two hours prior to crystallizing the blank of the bottle;

loading a bunker with the uncrystallized blank of the bottle;

delivering to an blank horse's head via a conveyor belt;

sending a bottleneck portion of the uncrystallized bottle blank into said crystallizer to heat

the bottleneck portion at a high temperature and crystallize the bottleneck portion via an arbor transmission chain;

at the same time, while the bottle is crystallized in the crystallizer, the body portion of the bottle blank is protected from the high temperature environment of the crystallizer by using a cooling partition, controlling the temperature of the uncrystallized portion of the blank body, so that the uncrystallized portion of the blank body is not affected by the high temperature environment of the crystallizer;

discharging the polyester bottle blank through an output blank horse's head; and
delivering to another conveyor belt to cool and shape the polyester bottle blank.